HCD544/HCD544X Camera
Quick Install Guide

Important Safety Instructions

- Read and keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Use only with the bracket or mounting system specified by the manufacturer, or sold with the apparatus.
- Refer all servicing to qualified service personnel.

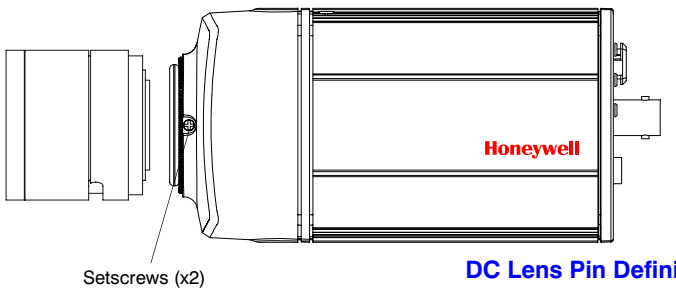
Installation

The HCD544 Series camera is designed for general surveillance applications and is ideally suited for low-light indoor environments.

Installing the Lens

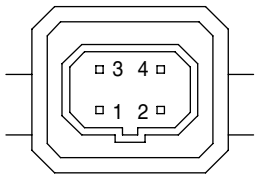
The HCD544 Series camera is factory configured for a CS-mount lens. Screw the lens (customer supplied) into the front of the camera body. An IR corrected Day/Night lens is recommended for this camera.

Figure 1 Lens Installation



DC Lens Pin Definitions

Pin	Function
1	CTRL -
2	CTRL +
3	DRV +
4	DRV -

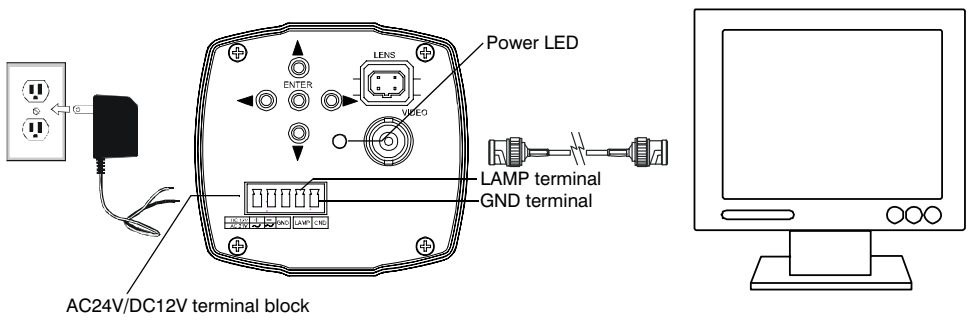


Connecting the Camera

Note Check the power source from the external power supply before applying power to the camera.

1. Connect the VIDEO connector on the rear of the camera to the video-in connector on your monitor or video recorder.
2. Connect the camera to a power supply appropriate for your installation (12 VDC or 24 VAC).
3. Plug the power supply into an appropriate power source. The power LED illuminates to show that the camera is receiving power.

Figure 2 Video Connections



Connecting LAMP Contact

The HCD544 camera is equipped with LAMP and GND external contact terminals (see *Figure 2*). When the LAMP terminal is connected to the GND terminal, the camera is forced into night mode (see *DAY&NIGHT*). It stays in night mode until the LAMP terminal is disconnected from the GND terminal.

Adjusting the Back Focus

To adjust the back focus, aim the camera towards a darker area, or use a Neutral Density lens filter. For best results, there should be a minimum of 15 ft (4.5 m) between the camera and the target focal area.

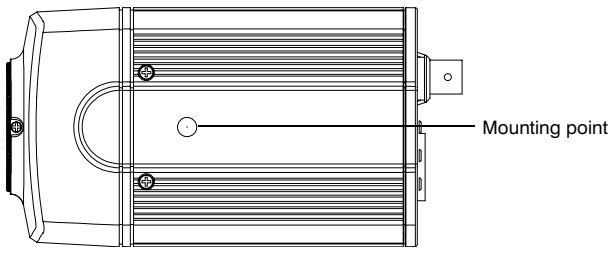
1. Loosen the setscrews (see *Figure 1*) with a Phillips screwdriver.
2. Set the Zoom lens adjustment to Wide and the Focus lens adjustment to Near.
3. Adjust the back focus ring to focus the picture.
4. Retighten the setscrews.

Mounting the Camera

There are mounting points on the top and bottom of the camera (see *Figure 3*) to mount the camera on a bracket or tripod. Use standard sized mounting bolts to install the camera to a mounting bracket.

Caution Follow local installation codes for proper mounting bracket support capability.

Figure 3 Camera Mounting.
Top view shown



Making Final Adjustments

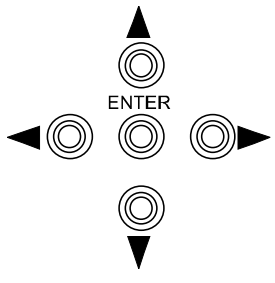
Adjust the focus in your field of view until you see a clear image. If necessary, adjust the brightness using the OSD menu controls (see *LENS DC/BRIGHTNESS* or *AGC*). Confirm the exposure on the monitor screen.

Programming

OSD Menu Controls

Figure 4 Camera Controller

Camera OSD control (4 position plus center press (ENTER)



Navigating through the menus

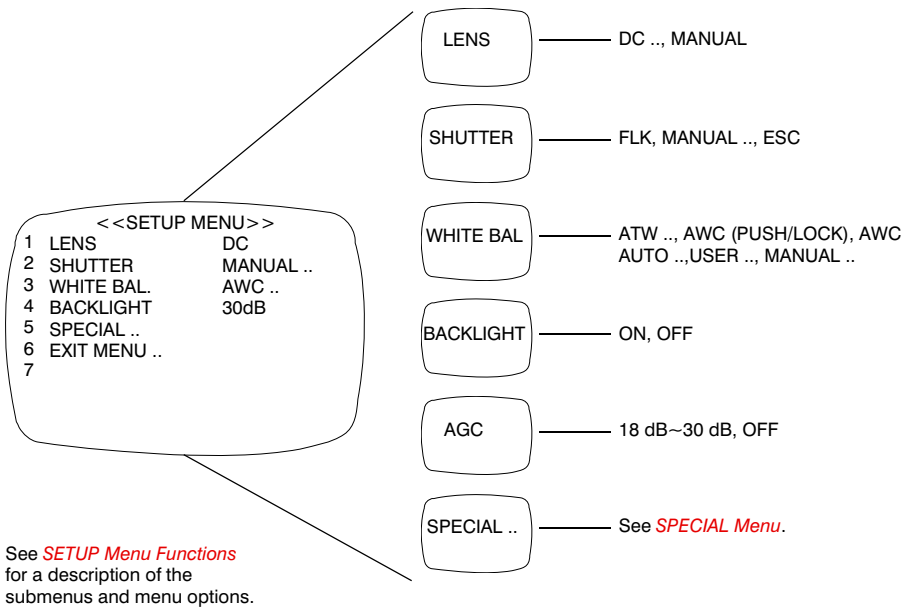
Press this control	To do this …
ENTER	Press and hold two seconds to enter SETUP menu. Press to enter a screen or select a menu option.
UP, DOWN (▲, ▼)	Move vertically between menus and options. Increase/decrease a value.
LEFT, RIGHT (◀, ▶)	Move horizontally between menus and options.
..	Indicates submenus. Select the menu, then press ENTER.
RETURN (on OSD submenus)	Exit the submenu. Select RETURN, then press ENTER.

Note Menu display turns off automatically after five minutes of no activity. Your changes will be saved.

OSD Menu Structure

The HCD544 Series camera menu system consists of one main SETUP menu for easy camera programming.

Figure 5 Menu Structure



See *SETUP Menu Functions* for a description of the submenus and menu options.

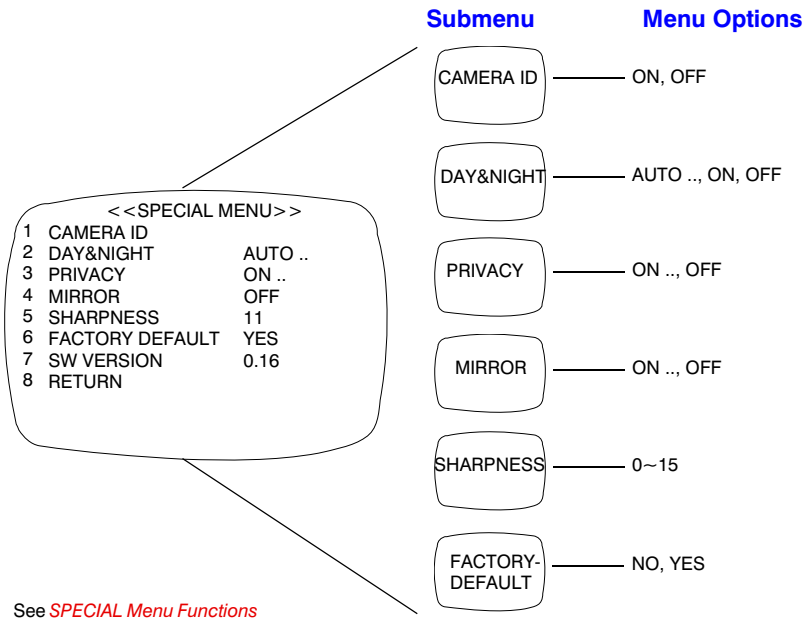
SETUP Menu Functions

	Menu Item	Description
1	LENS	Selects lens type **DC** = Automatic Iris lens. Press **ENTER** with DC selected to adjust the brightness level. **MANUAL** = Fixed lens
2	SHUTTER	Adjusts shutter settings **FLK** = Flickerless mode reduces on-screen flickering. **MANUAL** = Adjust the shutter speed from 1/60-1/100,000 of a second (NTSC), or 1/50-1/100,000 (PAL). **ESC** = Electronic Shutter Control. Press **ENTER** to adjust the brightness level. Not available with DC lens.
3	WHITE BAL. (White Balance)	Controls color on the screen. Press **ENTER** with ATW selected to change the mode. **ATW** = Select Auto Tracking White Balance when the color temperature is 2500°K-8000°K (for example when under a fluorescent light, or outdoors). **AWC PUSH** = Automatically adjust the white balance to your specific environment. When selected, the white balance is locked. **AWC AUTO** = A faster AWB mode with a wider operating range. **USER** = Adjust the red or blue gain, from **0~255**. **MANUAL** = Increase or decrease the red or blue gain on screen.
4	BACKLIGHT	Controls the light level to overcome severe backlighting conditions
5	AGC (Automatic Gain Control)	Adjusts value of AGC gain Increase the gain level (**18 dB~30 dB**) in 2 dB increments to brighten the picture in low light conditions. Noise/distortion may develop. **OFF** = DAY&NIGHT mode must be OFF to turn AGC OFF.
6	SPECIAL ..	Opens the SPECIAL menu (see *SPECIAL Menu*)
7	EXIT MENU	Exits the SETUP menu and returns to video monitoring **SAVE AND EXIT** = Exits the SETUP menu, saving your changes, and returns to video monitoring. If the camera times out after five minutes of inactivity, your changes are not saved. **EXIT** = Exits the SETUP menu without saving your changes. **RETURN** = Returns to the SETUP menu.

SPECIAL Menu

1. On the SETUP menu, press the **UP** or **DOWN** menu control and then select **SPECIAL**.
2. Press **ENTER** to access the SPECIAL menu.

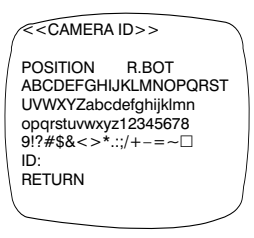
Figure 6 SPECIAL Menu



See *SPECIAL Menu Functions* for a description of the submenus and menu options.

SPECIAL Menu Functions

	Menu Item	Description
1	CAMERA ID	Sets a camera ID to be displayed on the monitor. To add a camera ID (maximum 10 characters, including spaces):



UP, **DOWN, LEFT, or RIGHT** menu control = Select a character, then press **ENTER** to accept it. The character is saved and the cursor moves to the next position.

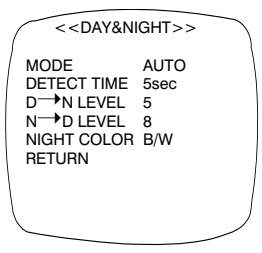
LEFT or **RIGHT** menu control = Go back or forward in the name or number to make changes.

POSITION = Position the camera ID on the screen. Press **(ENTER) SET** to confirm the position.

ID = Sets a camera ID to be displayed.

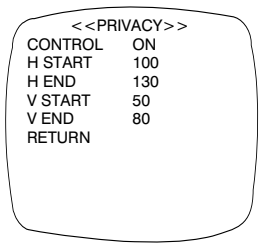
Select **RETURN** when you are finished.

	Menu Item	Description
2	DAY&NIGHT	



Menu Item	Description
MODE	**AUTO** = Depending on the light level, the camera automatically switches to night mode. **ON** = The camera is forced into night mode at all times. **OFF** = The camera never switches to night mode.
DETECT TIME	Sets the time (**5~60**, in 5-second increments) before the camera switches to day or night mode after detecting a switching threshold.
D→ N LEVEL	The light detection level (**1~12**) at which the camera switches to night mode.
N→D LEVEL	The light detection level (**4~15**) at which the camera switches to day mode. Set MODE to **AUTO** and D→N LEVEL at least 3 less than N→D LEVEL.
NIGHT COLOR	Set the color mode in night mode. **B/W** = Black/white (no color burst) **COLOR** = Color Set MODE to **AUTO** or **ON**.

3	PRIVACY	Masks an area of the screen from video monitoring



Menu Item	Description
CONTROL	**ON** = Hide an area of the scene from viewing.
H START	Set a horizontal start position (**0~187**).
H END	Set a horizontal end position (**0~187**).
V START	Set a vertical start position (**0~122**).
V END	Set a vertical end position (**0~122**).

4	MIRROR	Produces a horizontal mirror image on screen
5	SHARPNESS	Sharpens the image on screen (image level **0~15**). Excessive sharpening may cause picture noise.
6	FACTORY-DEFAULT	Restores all factory default settings
7	SW VERSION	Displays the current firmware version
8	RETURN	Returns to the main SETUP menu

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